

August 16, 2016

Ms. Laura Chern, P.G.
Wisconsin Department of Natural Resources
PO Box 7921
Madison, Wisconsin 53707-7921

RECEIVED-DNR

AUG 19 2016

DRINKING WATER & GW

RE: Groundwater Monitoring Network Documentation
Results of July 2016 Groundwater Sampling
Central Sands Dairy, LLC
WPDES Permit No. WI-00063533-02-1
Town of Armenia, Juneau County, Wisconsin

Dear Ms. Chern:

Pursuant to our the groundwater monitoring schedule contained in WPDES Permit WI-0063533-02-1 for the Central Sands Dairy (CSD) facility, RJN Environmental Services, LLC (RJN) sampled the site groundwater monitoring wells on July 26, 2016.

Groundwater Flow

Table 1 summarizes groundwater elevations as measured seven times since the Phase I groundwater monitoring network was installed. At the time of water level measurement, none of the irrigation wells on adjacent fields were operating.

Figure 1 shows the water table as measured on July 26, 2016. The aquifer has shown that it is very predictable in that although there have been seasonal variations in the depth to groundwater, the flow conditions have been virtually identical each time measurements were taken.

As has been the case every time that water levels have been measured on the site, groundwater is flowing in an east-southeasterly direction. Figure 2 presents hydrographs of the water levels in all wells. Although the water levels in wells have not perfectly mimicked each-other, there have been no occurrences in which the groundwater flow regime changed. At all times, the groundwater elevations have ranged from highest to lowest in the sequence of the CSD-3 nest, CSD-4, CSD-2 and the CSD-1 nest. Although the water level in CSD-4 showed indications of being influenced by pumping in nearby irrigation well RDO-12 in the July 2015 measurement (RDO-12 was operational at the time of that measurement), it was not enough of

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Phone: 608.576.3001

an impact to influence the overall flow conditions. The irrigation wells appear to be having no to minimal impact on the predominant groundwater flow regime.

Water quality data are presented in Table 2. As the data show, water quality in the CSD-3 nest continues to worsen. Based on the groundwater flow data, water in those wells clearly come from offsite, passing beneath the irrigated field to the west of the CSD property. At the same time, water quality in the CSD-1 nest remains relatively stable, and at concentrations lower than at both CSD-3S and CSD-4, which are upgradient. Consequently, as groundwater passes through the CSD property, it improves, casting additional doubt on a possibility of any release from the manure lagoon.

At this point, groundwater monitoring will proceed in accordance with the schedule stipulated in WPDES Permit WI-0063533-02-1.

Sincerely,
RJN ENVIRONMENTAL SERVICES, LLC



Robert J. Nauta, P.G.
Hydrogeologist

Cc: Ex. 6 Personal Privacy (PP) – Central Sands Dairy
David Crass, Esq. – Michael, Best & Friedrich

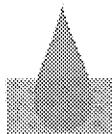


TABLE 1
GROUNDWATER ELEVATIONS
CENTRAL SANDS DAIRY, LLC
TOWN OF ARMENIA, JUNEAU COUNTY, WISCONSIN

COMMON NAME	CSD-1S			CSD-1D			CSD-2			CSD-3S			CSD-3D			CSD-4		
	DTW ²	GWE ³		DTW ²	GWE ³		DTW ²	GWE ³		DTW ²	GWE ³		DTW ²	GWE ³		DTW ²	GWE ³	
UNIQUE NUMBER	VY778			VY779			VU928			VU925			VU926			VU927		
TOP OF CASING ¹	963.61			963.53			961.18			963.26			963.07			963.91		
DATE	DTW ²	GWE ³																
Dec 14	20.19	943.42		18.68	944.85		15.94	945.24		15.16	948.1		14.99	948.08		17.20	946.71	
Apr 15	21.13	942.48		21.19	942.34		16.83	944.35		16.15	947.11		15.98	947.09		18.16	945.75	
Jul 15	21.06	942.55		20.98	942.55		16.77	944.41		15.78	947.48		15.56	947.51		19.10	944.81	
Oct 15	20.57	943.04		20.51	943.02		16.31	944.87		15.51	947.75		15.31	947.76		17.93	945.98	
Dec-15	20.56	943.05		20.47	943.06		16.01	945.17		14.99	948.27		14.77	948.3		17.22	946.69	
Mar-16	20.10	943.51		20.01	943.52		15.86	945.32		15.13	948.13		14.95	948.12		17.14	946.77	
Jul-16	19.71	943.90		19.60	943.93		15.40	945.78		14.22	949.04		14.01	949.06		16.56	947.35	

¹ FEET, MSL

² DEPTH TO WATER IN FEET

³ GROUNDWATER ELEVATION IN FEET, MSL

TABLE 2
GROUNDWATER QUALITY
CENTRAL SANDS DAIRY, LLC
TOWN OF ARMENIA, JUNEAU COUNTY, WISCONSIN
Results in mg/L

PARAMETER	PAL	ES	CSD-1S						
			Dec 14	Apr 15	Jul 15	Oct 15	Mar-16	Jul-16	
Total dissolved solids	NS	NS	192	210	300	350			
Chloride	125	250	16.9	21.1	19	19			
Chemical oxygen demand	NS	NS	3.5	<8.5	10	9.4J			
Ammonium (N)	2	10	2.77	2.63	2.6	3.3B	1.1B	0.55B	
Total Kjeldahl nitrogen	NS	NS	3.01	2.61	2.3	3.2	1.6	0.86B	
Total organic carbon	NS	NS	4	2.11	2.0	1.8			
Total coliform bacteria	(1)	(1)	P	P	<1	2	1	<1	
E. Coli	(1)	(1)	A	A	<1	<1	<1	<1	
Nitrogen, NO ₂ +NO ₃	2	10	16.1	14.0	24	22	16	18	
Potassium	NS	NS	16.8	18.4	21	26	26	28	

(1): Presence indicates exceedance
F, J: Result between levels of detection and quantification
B: Found in blank and sample.
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ES: Enforcement standard
P: Present
A: Absent
NS: No standards established
Italics indicate PAL exceedance
Bold indicates ES exceedance

TABLE 2
GROUNDWATER QUALITY
CENTRAL SANDS DAIRY, LLC
TOWN OF ARMENIA, JUNEAU COUNTY, WISCONSIN
Results in mg/L

PARAMETER	PAL	ES	CSD-1D						
			Dec 14	Apr 15	Jul 15	Oct 15	Mar 16	Jul 16	
Total dissolved solids	NS	NS	290	324	480	430			
Chloride	125	250	28.1	38.8	42	35			
Chemical oxygen demand	NS	NS	7.2	<8.5	9.8J	16			
Ammonium (N)	2	10	6.44	5.77	6.7	9.5B	6.5B	4.7B	
Total Kjeldahl nitrogen	NS	NS	6.9	5.77	6.5	7.6	6.1	4.2B	
Total organic carbon	NS	NS	5	3.16	3.2	2.2			
Total coliform bacteria	(1)	(1)	P	P	11	6	38	140	
E. Coli	(1)	(1)	A	A	<1	<1	<1	<1	
Nitrogen, NO ₂ +NO ₃	2	10	14.9	11.9	20	21	15	21B	
Potassium	NS	NS	20.0	26.1	33.0	35.0	29	23	

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TABLE 2
GROUNDWATER QUALITY
CENTRAL SANDS DAIRY, LLC
TOWN OF ARMENIA, JUNEAU COUNTY, WISCONSIN
Results in mg/L

PARAMETER	PAL	ES	CSD-2					
			Dec 14	Apr 15	Jul 15	Oct 15	Mar-16	Jul-16
Total dissolved solids	NS	NS	158	132	130	180		
Chloride	125	250	8.6	6.11	7.0	5.4		
Chemical oxygen demand	NS	NS	5.8	<8.5	<6.1	14		
Ammonium (N)	2	10	0.03	<0.015	<0.043	0.057JB	0.12JB	0.16JB
Total Kjeldahl nitrogen	NS	NS	0.27	0.212	0.54	0.76	0.54	0.48B
Total organic carbon	NS	NS	4	2.31	2.0	1.5		
Total coliform bacteria	(1)	(1)	P	P	<1	1	9	6
E. Coli	(1)	(1)	A	A	<1	<1	<1	<1
Nitrogen, NO ₂ +NO ₃	2	10	10.8	8.5	9.6	11	8.7	8.0
Potassium	NS	NS	9.4	9.38	8.4	8.9	7.1	7.4

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TABLE 2
GROUNDWATER QUALITY
CENTRAL SANDS DAIRY, LLC
TOWN OF ARMENIA, JUNEAU COUNTY, WISCONSIN
Results in mg/L

PARAMETER	PAL	ES	CSD-3S						
			Dec 14	Apr 15	Jul 15	Oct 15	Mar-16	Jul-16	
Total dissolved solids	NS	NS	216	306	480	360			
Chloride	125	250	35.2	63.5	48	34			
Chemical oxygen demand	NS	NS	6.1	<8.5	11	9.4J			
Ammonium (N)	2	10	0.02	<0.0150	<0.043	0.05JB	0.12JB	0.089JB	
Total Kjeldahl nitrogen	NS	NS	0.21	0.222F	0.50	0.71	0.62	0.61B	
Total organic carbon	NS	NS	3	1.79	1.6	1.5			
Total coliform bacteria	(1)	(1)	P	P	5	2	12	33	
E. Coli	(1)	(1)	A	A	4	<1	<1	<1	
Nitrogen, NO ₂ +NO ₃	2	10	18.8	17.2	24	22	29	34B	
Potassium	NS	NS	7.1	5.06	5.8	6.7	5.8	5.7	

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TABLE 2
GROUNDWATER QUALITY
CENTRAL SANDS DAIRY, LLC
TOWN OF ARMENIA, JUNEAU COUNTY, WISCONSIN
Results in mg/L

PARAMETER	PAL	ES	CSD-3D						
			Dec 14	Apr 15	Jul 15	Oct 15	Mar-16	Jul-16	
Total dissolved solids	NS	NS	112	136	74	150			
Chloride	125	250	1.9	6.37	5.1	5.2			
Chemical oxygen demand	NS	NS	6.1	22.9F	8.0J	<6.1			
Ammonium (N)	2	10	0.02	0.0157F	0.076J	0.056JB	0.13JB	0.071JB	
Total Kjeldahl nitrogen	NS	NS	0.11	<0.110	<0.29	0.57	0.47	0.42B	
Total organic carbon	NS	NS	2	1.03	0.65J	0.33J			
Total coliform bacteria	(1)	(1)	P	P	210	11	38	82	
E. Coli	(1)	(1)	P	P	<1	<1	<1	<1	
Nitrogen, NO ₂ +NO ₃	2	10	0.3	1.25	2.3	1.7	9.1	8.4	
Potassium	NS	NS	0.7	1.28	0.88	0.54	1.1	1.0	

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GROUNDWATER QUALITY
CENTRAL SANDS DAIRY, LLC
TOWN OF ARMENIA, JUNEAU COUNTY, WISCONSIN
Results in mg/L

PARAMETER	PAL	ES	CSD-4											
			Dec 14		Apr 15		Jul 15		Oct 15					
Total dissolved solids	NS	NS	628	640	770	704	790	830	450	500				
Chloride	125	250	50.4	50.8	58.1	58.0	52	51.0	24	25				
Chemical oxygen demand	NS	NS	12.4	12.1	9.27F	9.98F	13	14	15	15				
Ammonium (N)	2	10	0.01	0.01	<0.0150	<0.0150	<0.043	<0.043	0.072	0.062JB				
Total Kjeldahl nitrogen	NS	NS	0.63	0.63	0.505	0.132F	1.2	1.1	1.0	0.62				
Total organic carbon	NS	NS	6	6	4.67	4.55	4.0	4.0	2.8	2.8				
Total coliform bacteria	(1)	(1)	P	P	P	P	<1	<1	3	1				
E. Coli	(1)	(1)	A	A	A	A	<1	<1	<1	<1				
Nitrogen, NO ₂ +NO ₃	2	10	62.5	60.0	69.5	69.3	77	77	38	36				
Potassium	NS	NS	31.1	31.1	44.0	44.1	44	46	36	35				

(1): Presence indicates exceedance

F, J: Result between levels of detection and quantification

B: Found in blank and sample.

PAL: Preventive action limit

ES: Enforcement standard

P: Present

A: Absent

NS: No standards established

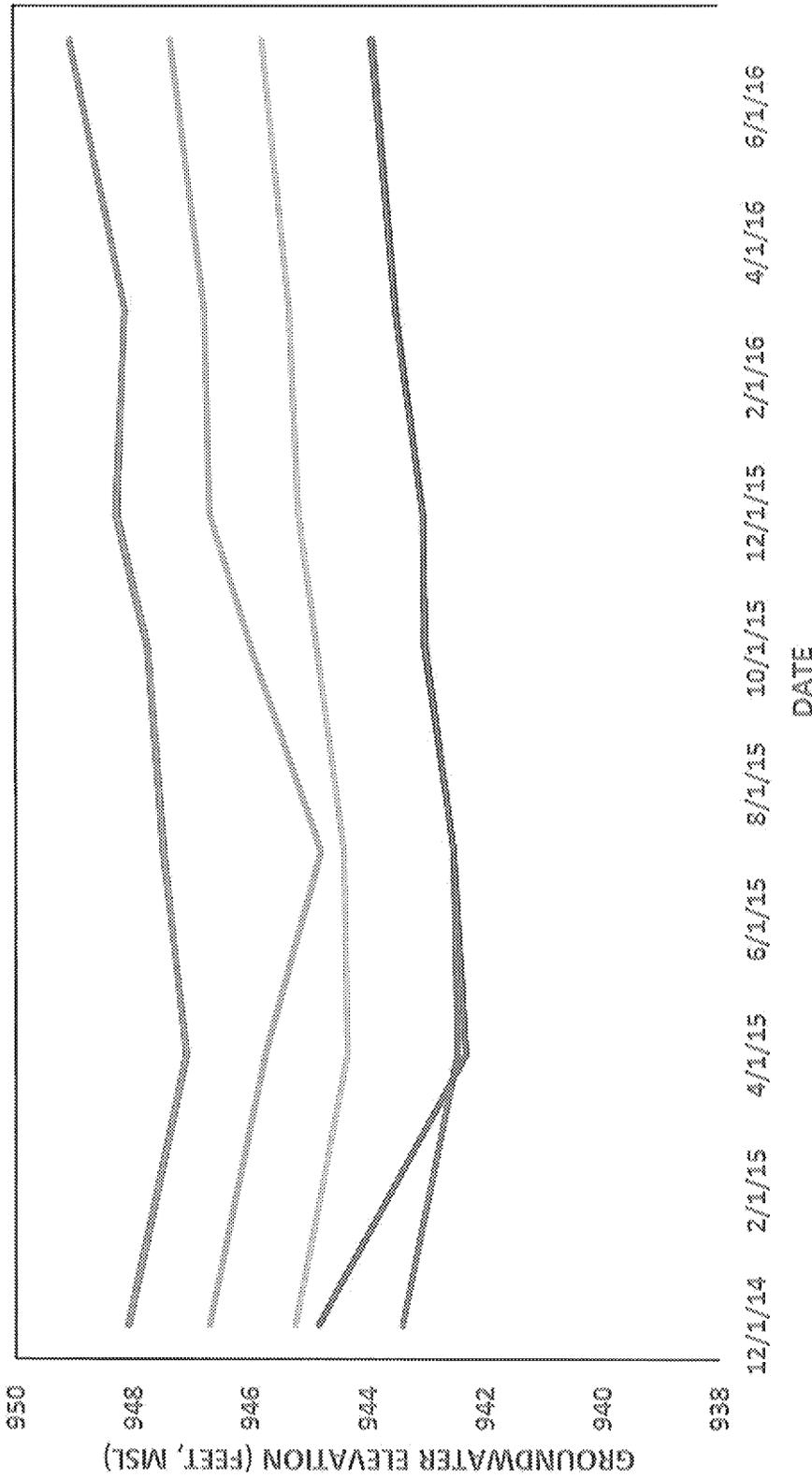
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TABLE 2
GROUNDWATER QUALITY
CENTRAL SANDS DAIRY, LLC
TOWN OF ARMENIA, JUNEAU COUNTY, WISCONSIN
Results in mg/L

PARAMETER	PAL	ES	CSD-4		
			Mar-16	Jul-16	
Total dissolved solids	NS	NS			
Chloride	125	250			
Chemical oxygen demand	NS	NS			
Ammonium (N)	2	10	0.15JB	0.14JB	0.045JB
Total Kjeldahl nitrogen	NS	NS	1.1	1.3	0.79B
Total organic carbon	NS	NS			
Total coliform bacteria	(1)	(1)	24	19	2
E. Coli	(1)	(1)	<1	<1	<1
Nitrogen, NO ₂ +NO ₃	2	10	54	46	48
Potassium	NS	NS	40	41	34
					33

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NOTE: WATER LEVELS IN WELLS CSD-3S AND CSD-3D ARE VIRTUALLY IDENTICAL, SO THEY APPEAR AS A SINGLE LINE.

— CSD-1S — CSD-1D — CSD-2 — CSD-3S — CSD-3D — CSD-4

CENTRAL SANDS DAIRY, LLC TOWN OF ARMENIA, WISCONSIN HYDROGRAPHS		FIGURE 2
DRAWN BY RN	PROJ. No. 14-203	DATE 11 AUG 16
		FILE HYDROGRAPH

RJN Environmental Services, LLC

Surface Water Studies
Groundwater Studies
Site Investigations

4811 MONONA DRIVE, MONONA, WISCONSIN

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-114969-1
Client Project/Site: Central Sands Dairy - 14-203

For:
RJN Environmental Services LLC
4631 County Road A
Oregon, Wisconsin 53575

Attn: Robert J Nauta



Authorized for release by:
8/10/2016 3:03:20 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Method Summary	6
Sample Summary	7
Client Sample Results	8
Definitions	10
QC Association	11
QC Sample Results	14
Chronicle	17
Certification Summary	20
Chain of Custody	21
Receipt Checklists	22

Case Narrative

Client: RJN Environmental Services LLC
Project/Site: Central Sands Dairy - 14-203

TestAmerica Job ID: 500-114969-1

Job ID: 500-114969-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-114969-1

Comments

No additional comments.

Receipt

The samples were received on 7/28/2016 8:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 8.9° C.

Receipt Exceptions

The following sample(s) was received at the laboratory outside the required temperature criteria: 8.9, Evidence of ice.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Method(s) 4500 NH3 H: Reanalysis of the following sample has been performed since the TKN result was lower than the Ammonia-Nitrogen result: CSD-1D (500-114969-2). All the reanalysis was less than 20% RPD between the TKN and NH3 results. It is possible that some of the nitrogen was volatilized in the TKN digestion process. All of the QC was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: RJN Environmental Services LLC
 Project/Site: Central Sands Dairy - 14-203

TestAmerica Job ID: 500-114969-1

Client Sample ID: CSD-1S

Lab Sample ID: 500-114969-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	28000		500	190	ug/L	1		6020	Total Recoverable
Nitrogen, Nitrate Nitrite	18		1.0	0.45	mg/L	10		353.2	Total/NA
Nitrogen, Kjeldahl	0.86	B	0.40	0.15	mg/L	1		4500 NH3 G	Total/NA
Ammonia	0.55	B	0.20	0.028	mg/L	1		SM 4500 NH3 G	Total/NA
Phosphorus as P	0.021	J	0.050	0.015	mg/L	1		SM 4500 P E	Total/NA

Client Sample ID: CSD-1D

Lab Sample ID: 500-114969-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	23000		500	190	ug/L	1		6020	Total Recoverable
Nitrogen, Nitrate Nitrite	21	B	2.5	1.1	mg/L	25		353.2	Total/NA
Nitrogen, Kjeldahl	4.2	B	0.80	0.29	mg/L	1		4500 NH3 G	Total/NA
Ammonia	4.7	B	0.20	0.028	mg/L	1		SM 4500 NH3 G	Total/NA
Phosphorus as P	0.030	J	0.050	0.015	mg/L	1		SM 4500 P E	Total/NA

Client Sample ID: CSD-2

Lab Sample ID: 500-114969-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	7400		500	190	ug/L	1		6020	Total Recoverable
Nitrogen, Nitrate Nitrite	8.0		0.50	0.23	mg/L	5		353.2	Total/NA
Nitrogen, Kjeldahl	0.48	B	0.40	0.15	mg/L	1		4500 NH3 G	Total/NA
Ammonia	0.16	J B	0.20	0.028	mg/L	1		SM 4500 NH3 G	Total/NA
Phosphorus as P	0.041	J	0.050	0.015	mg/L	1		SM 4500 P E	Total/NA

Client Sample ID: CSD-3S

Lab Sample ID: 500-114969-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	5700		500	190	ug/L	1		6020	Total Recoverable
Nitrogen, Nitrate Nitrite	34	B	2.5	1.1	mg/L	25		353.2	Total/NA
Nitrogen, Kjeldahl	0.61	B	0.40	0.15	mg/L	1		4500 NH3 G	Total/NA
Ammonia	0.089	J B	0.20	0.028	mg/L	1		SM 4500 NH3 G	Total/NA
Phosphorus as P	0.031	J	0.050	0.015	mg/L	1		SM 4500 P E	Total/NA

Client Sample ID: CSD-3D

Lab Sample ID: 500-114969-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	1000		500	190	ug/L	1		6020	Total Recoverable
Nitrogen, Nitrate Nitrite	8.4		0.50	0.23	mg/L	5		353.2	Total/NA
Nitrogen, Kjeldahl	0.42	B	0.40	0.15	mg/L	1		4500 NH3 G	Total/NA
Ammonia	0.071	J B	0.20	0.028	mg/L	1		SM 4500 NH3 G	Total/NA
Phosphorus as P	0.040	J	0.050	0.015	mg/L	1		SM 4500 P E	Total/NA

Client Sample ID: CSD-4

Lab Sample ID: 500-114969-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	34000		500	190	ug/L	1		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: RJN Environmental Services LLC
 Project/Site: Central Sands Dairy - 14-203

TestAmerica Job ID: 500-114969-1

Client Sample ID: CSD-4 (Continued)

Lab Sample ID: 500-114969-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrogen, Nitrate Nitrite	48		5.0	2.3	mg/L	50		353.2	Total/NA
Nitrogen, Kjeldahl	0.79	B	0.40	0.15	mg/L	1		4500 NH3 G	Total/NA
Ammonia	0.045	J B	0.20	0.028	mg/L	1		SM 4500 NH3 G	Total/NA
Phosphorus as P	0.029	J	0.050	0.015	mg/L	1		SM 4500 P E	Total/NA

Client Sample ID: CSD-4D

Lab Sample ID: 500-114969-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	33000		500	190	ug/L	1		6020	Total Recoverable
Nitrogen, Nitrate Nitrite	49	B	2.5	1.1	mg/L	25		353.2	Total/NA
Nitrogen, Kjeldahl	0.74	B	0.40	0.15	mg/L	1		4500 NH3 G	Total/NA
Ammonia	0.045	J B	0.20	0.028	mg/L	1		SM 4500 NH3 G	Total/NA
Phosphorus as P	0.031	J	0.050	0.015	mg/L	1		SM 4500 P E	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Method Summary

Client: RJN Environmental Services LLC
Project/Site: Central Sands Dairy - 14-203

TestAmerica Job ID: 500-114969-1

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	TAL CHI
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL CHI
4500 NH3 G	4500NH3 G - Nitrogen, Total Kjeldahl	SM	TAL CHI
SM 4500 NH3 G	Ammonia	SM	TAL CHI
SM 4500 P E	Phosphorus	SM	TAL CHI

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TestAmerica Chicago

Sample Summary

Client: RJN Environmental Services LLC
Project/Site: Central Sands Dairy - 14-203

TestAmerica Job ID: 500-114969-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-114969-1	CSD-1S	Water	07/26/16 12:50	07/28/16 08:45
500-114969-2	CSD-1D	Water	07/26/16 11:50	07/28/16 08:45
500-114969-3	CSD-2	Water	07/26/16 14:45	07/28/16 08:45
500-114969-4	CSD-3S	Water	07/26/16 09:35	07/28/16 08:45
500-114969-5	CSD-3D	Water	07/26/16 08:25	07/28/16 08:45
500-114969-6	CSD-4	Water	07/26/16 13:50	07/28/16 08:45
500-114969-7	CSD-4D	Water	07/26/16 13:50	07/28/16 08:45

Client Sample Results

Client: RJN Environmental Services LLC
 Project/Site: Central Sands Dairy - 14-203

TestAmerica Job ID: 500-114969-1

Client Sample ID: CSD-1S

Lab Sample ID: 500-114969-1

Date Collected: 07/26/16 12:50

Matrix: Water

Date Received: 07/28/16 08:45

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	28000		500	190	ug/L		07/28/16 14:36	07/29/16 13:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrate Nitrite	18		1.0	0.45	mg/L			08/07/16 20:48	10
Nitrogen, Kjeldahl	0.86	B	0.40	0.15	mg/L		08/05/16 10:00	08/05/16 12:26	1
Ammonia	0.55	B	0.20	0.028	mg/L		08/05/16 20:20	08/05/16 22:58	1
Phosphorus as P	0.021	J	0.050	0.015	mg/L		07/28/16 15:29	07/29/16 14:20	1

Client Sample ID: CSD-1D

Lab Sample ID: 500-114969-2

Date Collected: 07/26/16 11:50

Matrix: Water

Date Received: 07/28/16 08:45

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	23000		500	190	ug/L		07/28/16 14:36	07/29/16 13:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrate Nitrite	21	B	2.5	1.1	mg/L			08/05/16 01:20	25
Nitrogen, Kjeldahl	4.2	B	0.80	0.29	mg/L		08/10/16 08:45	08/10/16 11:43	1
Ammonia	4.7	B	0.20	0.028	mg/L		08/05/16 20:20	08/08/16 20:27	1
Phosphorus as P	0.030	J	0.050	0.015	mg/L		07/28/16 15:29	07/29/16 14:21	1

Client Sample ID: CSD-2

Lab Sample ID: 500-114969-3

Date Collected: 07/26/16 14:45

Matrix: Water

Date Received: 07/28/16 08:45

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	7400		500	190	ug/L		07/28/16 14:36	07/29/16 13:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrate Nitrite	8.0		0.50	0.23	mg/L			08/07/16 20:51	5
Nitrogen, Kjeldahl	0.48	B	0.40	0.15	mg/L		08/05/16 10:00	08/05/16 12:32	1
Ammonia	0.16	J B	0.20	0.028	mg/L		08/05/16 20:20	08/05/16 23:03	1
Phosphorus as P	0.041	J	0.050	0.015	mg/L		08/01/16 15:23	08/02/16 20:48	1

Client Sample ID: CSD-3S

Lab Sample ID: 500-114969-4

Date Collected: 07/26/16 09:35

Matrix: Water

Date Received: 07/28/16 08:45

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	5700		500	190	ug/L		07/28/16 14:36	07/29/16 13:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrate Nitrite	34	B	2.5	1.1	mg/L			08/05/16 01:21	25
Nitrogen, Kjeldahl	0.61	B	0.40	0.15	mg/L		08/05/16 10:00	08/05/16 12:40	1

TestAmerica Chicago

Client Sample Results

Client: RJN Environmental Services LLC
 Project/Site: Central Sands Dairy - 14-203

TestAmerica Job ID: 500-114969-1

Client Sample ID: CSD-3S

Lab Sample ID: 500-114969-4

Date Collected: 07/26/16 09:35

Matrix: Water

Date Received: 07/28/16 08:45

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.089	J B	0.20	0.028	mg/L		08/05/16 20:20	08/05/16 23:06	1
Phosphorus as P	0.031	J	0.050	0.015	mg/L		08/01/16 15:23	08/02/16 20:49	1

Client Sample ID: CSD-3D

Lab Sample ID: 500-114969-5

Date Collected: 07/26/16 08:25

Matrix: Water

Date Received: 07/28/16 08:45

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	1000		500	190	ug/L		07/28/16 14:36	07/29/16 13:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrate Nitrite	8.4		0.50	0.23	mg/L			08/07/16 20:57	5
Nitrogen, Kjeldahl	0.42	B	0.40	0.15	mg/L		08/05/16 10:00	08/05/16 12:43	1
Ammonia	0.071	J B	0.20	0.028	mg/L		08/05/16 20:20	08/05/16 23:09	1
Phosphorus as P	0.040	J	0.050	0.015	mg/L		08/01/16 15:23	08/02/16 20:49	1

Client Sample ID: CSD-4

Lab Sample ID: 500-114969-6

Date Collected: 07/26/16 13:50

Matrix: Water

Date Received: 07/28/16 08:45

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	34000		500	190	ug/L		07/28/16 14:36	07/29/16 13:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrate Nitrite	48		5.0	2.3	mg/L			08/07/16 20:59	50
Nitrogen, Kjeldahl	0.79	B	0.40	0.15	mg/L		08/05/16 10:00	08/05/16 12:46	1
Ammonia	0.045	J B	0.20	0.028	mg/L		08/05/16 20:20	08/05/16 23:18	1
Phosphorus as P	0.029	J	0.050	0.015	mg/L		08/01/16 15:23	08/02/16 20:49	1

Client Sample ID: CSD-4D

Lab Sample ID: 500-114969-7

Date Collected: 07/26/16 13:50

Matrix: Water

Date Received: 07/28/16 08:45

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	33000		500	190	ug/L		07/28/16 14:36	07/29/16 13:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrate Nitrite	49	B	2.5	1.1	mg/L			08/05/16 01:22	25
Nitrogen, Kjeldahl	0.74	B	0.40	0.15	mg/L		08/05/16 10:00	08/05/16 12:49	1
Ammonia	0.045	J B	0.20	0.028	mg/L		08/05/16 20:20	08/05/16 23:20	1
Phosphorus as P	0.031	J	0.050	0.015	mg/L		08/01/16 15:23	08/02/16 20:50	1

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Definitions/Glossary

Client: RJN Environmental Services LLC
Project/Site: Central Sands Dairy - 14-203

TestAmerica Job ID: 500-114969-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
"	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: RJN Environmental Services LLC
 Project/Site: Central Sands Dairy - 14-203

TestAmerica Job ID: 500-114969-1

Metals

Prep Batch: 345645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-114969-1	CSD-1S	Total Recoverable	Water	3005A	
500-114969-2	CSD-1D	Total Recoverable	Water	3005A	
500-114969-3	CSD-2	Total Recoverable	Water	3005A	
500-114969-4	CSD-3S	Total Recoverable	Water	3005A	
500-114969-5	CSD-3D	Total Recoverable	Water	3005A	
500-114969-6	CSD-4	Total Recoverable	Water	3005A	
500-114969-7	CSD-4D	Total Recoverable	Water	3005A	
MB 500-345645/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-345645/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 346025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-114969-1	CSD-1S	Total Recoverable	Water	6020	345645
500-114969-2	CSD-1D	Total Recoverable	Water	6020	345645
500-114969-3	CSD-2	Total Recoverable	Water	6020	345645
500-114969-4	CSD-3S	Total Recoverable	Water	6020	345645
500-114969-5	CSD-3D	Total Recoverable	Water	6020	345645
500-114969-6	CSD-4	Total Recoverable	Water	6020	345645
500-114969-7	CSD-4D	Total Recoverable	Water	6020	345645
MB 500-345645/1-A	Method Blank	Total Recoverable	Water	6020	345645
LCS 500-345645/2-A	Lab Control Sample	Total Recoverable	Water	6020	345645

General Chemistry

Prep Batch: 345666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-114969-1	CSD-1S	Total/NA	Water	SM 4500 P B	
500-114969-2	CSD-1D	Total/NA	Water	SM 4500 P B	
MB 500-345666/1-A	Method Blank	Total/NA	Water	SM 4500 P B	
LCS 500-345666/2-A	Lab Control Sample	Total/NA	Water	SM 4500 P B	

Analysis Batch: 345871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-114969-1	CSD-1S	Total/NA	Water	SM 4500 P E	345666
500-114969-2	CSD-1D	Total/NA	Water	SM 4500 P E	345666
MB 500-345666/1-A	Method Blank	Total/NA	Water	SM 4500 P E	345666
LCS 500-345666/2-A	Lab Control Sample	Total/NA	Water	SM 4500 P E	345666

Prep Batch: 346077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-114969-3	CSD-2	Total/NA	Water	SM 4500 P B	
500-114969-4	CSD-3S	Total/NA	Water	SM 4500 P B	
500-114969-5	CSD-3D	Total/NA	Water	SM 4500 P B	
500-114969-6	CSD-4	Total/NA	Water	SM 4500 P B	
500-114969-7	CSD-4D	Total/NA	Water	SM 4500 P B	
MB 500-346077/1-A	Method Blank	Total/NA	Water	SM 4500 P B	
LCS 500-346077/2-A	Lab Control Sample	Total/NA	Water	SM 4500 P B	

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QC Association Summary

Client: RJN Environmental Services LLC
 Project/Site: Central Sands Dairy - 14-203

TestAmerica Job ID: 500-114969-1

General Chemistry (Continued)

Analysis Batch: 346289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-114969-3	CSD-2	Total/NA	Water	SM 4500 P E	346077
500-114969-4	CSD-3S	Total/NA	Water	SM 4500 P E	346077
500-114969-5	CSD-3D	Total/NA	Water	SM 4500 P E	346077
500-114969-6	CSD-4	Total/NA	Water	SM 4500 P E	346077
500-114969-7	CSD-4D	Total/NA	Water	SM 4500 P E	346077
MB 500-346077/1-A	Method Blank	Total/NA	Water	SM 4500 P E	346077
LCS 500-346077/2-A	Lab Control Sample	Total/NA	Water	SM 4500 P E	346077

Prep Batch: 346582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-114969-1	CSD-1S	Total/NA	Water	SM4500Norg_C	
500-114969-3	CSD-2	Total/NA	Water	SM4500Norg_C	
500-114969-4	CSD-3S	Total/NA	Water	SM4500Norg_C	
500-114969-5	CSD-3D	Total/NA	Water	SM4500Norg_C	
500-114969-6	CSD-4	Total/NA	Water	SM4500Norg_C	
500-114969-7	CSD-4D	Total/NA	Water	SM4500Norg_C	
MB 500-346582/1-A	Method Blank	Total/NA	Water	SM4500Norg_C	
LCS 500-346582/2-A	Lab Control Sample	Total/NA	Water	SM4500Norg_C	

Analysis Batch: 346747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-114969-1	CSD-1S	Total/NA	Water	4500 NH3 G	346582
500-114969-3	CSD-2	Total/NA	Water	4500 NH3 G	346582
500-114969-4	CSD-3S	Total/NA	Water	4500 NH3 G	346582
500-114969-5	CSD-3D	Total/NA	Water	4500 NH3 G	346582
500-114969-6	CSD-4	Total/NA	Water	4500 NH3 G	346582
500-114969-7	CSD-4D	Total/NA	Water	4500 NH3 G	346582
MB 500-346582/1-A	Method Blank	Total/NA	Water	4500 NH3 G	346582
LCS 500-346582/2-A	Lab Control Sample	Total/NA	Water	4500 NH3 G	346582

Analysis Batch: 346778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-114969-2	CSD-1D	Total/NA	Water	353.2	
500-114969-4	CSD-3S	Total/NA	Water	353.2	
500-114969-7	CSD-4D	Total/NA	Water	353.2	
MB 500-346778/43	Method Blank	Total/NA	Water	353.2	
LCS 500-346778/44	Lab Control Sample	Total/NA	Water	353.2	

Prep Batch: 346808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-114969-1	CSD-1S	Total/NA	Water	SM 4500 NH3 B	
500-114969-2	CSD-1D	Total/NA	Water	SM 4500 NH3 B	
500-114969-3	CSD-2	Total/NA	Water	SM 4500 NH3 B	
500-114969-4	CSD-3S	Total/NA	Water	SM 4500 NH3 B	
500-114969-5	CSD-3D	Total/NA	Water	SM 4500 NH3 B	
500-114969-6	CSD-4	Total/NA	Water	SM 4500 NH3 B	
500-114969-7	CSD-4D	Total/NA	Water	SM 4500 NH3 B	
MB 500-346808/1-A	Method Blank	Total/NA	Water	SM 4500 NH3 B	
LCS 500-346808/2-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 B	

TestAmerica Chicago

QC Association Summary

Client: RJN Environmental Services LLC
 Project/Site: Central Sands Dairy - 14-203

TestAmerica Job ID: 500-114969-1

General Chemistry (Continued)

Analysis Batch: 346878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-114969-1	CSD-1S	Total/NA	Water	SM 4500 NH3 G	346808
500-114969-3	CSD-2	Total/NA	Water	SM 4500 NH3 G	346808
500-114969-4	CSD-3S	Total/NA	Water	SM 4500 NH3 G	346808
500-114969-5	CSD-3D	Total/NA	Water	SM 4500 NH3 G	346808
500-114969-6	CSD-4	Total/NA	Water	SM 4500 NH3 G	346808
500-114969-7	CSD-4D	Total/NA	Water	SM 4500 NH3 G	346808
MB 500-346808/1-A	Method Blank	Total/NA	Water	SM 4500 NH3 G	346808
LCS 500-346808/2-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 G	346808

Analysis Batch: 346879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-114969-1	CSD-1S	Total/NA	Water	353.2	
500-114969-3	CSD-2	Total/NA	Water	353.2	
500-114969-5	CSD-3D	Total/NA	Water	353.2	
500-114969-6	CSD-4	Total/NA	Water	353.2	
MB 500-346879/12	Method Blank	Total/NA	Water	353.2	
LCS 500-346879/13	Lab Control Sample	Total/NA	Water	353.2	

Analysis Batch: 347034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-114969-2	CSD-1D	Total/NA	Water	SM 4500 NH3 G	346808
MB 500-346808/1-A	Method Blank	Total/NA	Water	SM 4500 NH3 G	346808
LCS 500-346808/2-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 G	346808

Prep Batch: 347126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-114969-2	CSD-1D	Total/NA	Water	SM4500Norg_C	
MB 500-347126/1-A	Method Blank	Total/NA	Water	SM4500Norg_C	
LCS 500-347126/2-A	Lab Control Sample	Total/NA	Water	SM4500Norg_C	

Analysis Batch: 347304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-114969-2	CSD-1D	Total/NA	Water	4500 NH3 G	347126
MB 500-347126/1-A	Method Blank	Total/NA	Water	4500 NH3 G	347126
LCS 500-347126/2-A	Lab Control Sample	Total/NA	Water	4500 NH3 G	347126

QC Sample Results

Client: RJN Environmental Services LLC
 Project/Site: Central Sands Dairy - 14-203

TestAmerica Job ID: 500-114969-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 500-345645/1-A Matrix: Water Analysis Batch: 346025						Client Sample ID: Method Blank Prep Type: Total Recoverable Prep Batch: 345645			
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	<190		500	190	ug/L		07/28/16 14:36	07/29/16 12:44	1

Lab Sample ID: LCS 500-345645/2-A Matrix: Water Analysis Batch: 346025						Client Sample ID: Lab Control Sample Prep Type: Total Recoverable Prep Batch: 345645			
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Potassium	10000	10200		ug/L		102	80 - 120		

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 500-346778/43 Matrix: Water Analysis Batch: 346778						Client Sample ID: Method Blank Prep Type: Total/NA			
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrate Nitrite	0.0671	J	0.10	0.045	mg/L			08/04/16 22:57	1

Lab Sample ID: LCS 500-346778/44 Matrix: Water Analysis Batch: 346778						Client Sample ID: Lab Control Sample Prep Type: Total/NA			
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrogen, Nitrate Nitrite	1.00	1.04		mg/L		104	90 - 110		

Lab Sample ID: MB 500-346879/12 Matrix: Water Analysis Batch: 346879						Client Sample ID: Method Blank Prep Type: Total/NA			
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrate Nitrite	<0.045		0.10	0.045	mg/L			08/07/16 20:31	1

Lab Sample ID: LCS 500-346879/13 Matrix: Water Analysis Batch: 346879						Client Sample ID: Lab Control Sample Prep Type: Total/NA			
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrogen, Nitrate Nitrite	1.00	1.01		mg/L		101	90 - 110		

Method: 4500 NH3 G - 4500NH3 G - Nitrogen, Total Kjeldahl'

Lab Sample ID: MB 500-346582/1-A Matrix: Water Analysis Batch: 346747						Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 346582			
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	0.250	J	0.40	0.15	mg/L		08/05/16 10:00	08/05/16 12:06	1

TestAmerica Chicago

QC Sample Results

Client: RJN Environmental Services LLC
 Project/Site: Central Sands Dairy - 14-203

TestAmerica Job ID: 500-114969-1

Method: 4500 NH3 G - 4500NH3 G - Nitrogen, Total Kjeldahl' (Continued)

Lab Sample ID: LCS 500-346582/2-A Matrix: Water Analysis Batch: 346747				Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 346582 %Rec.			
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Nitrogen, Kjeldahl	2.50	2.05		mg/L		82	80 - 120

Lab Sample ID: MB 500-347126/1-A Matrix: Water Analysis Batch: 347304				Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 347126					
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	0.234	J	0.40	0.15	mg/L		08/10/16 08:45	08/10/16 10:52	1

Lab Sample ID: LCS 500-347126/2-A Matrix: Water Analysis Batch: 347304				Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 347126 %Rec.			
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Nitrogen, Kjeldahl	2.50	2.11		mg/L		84	80 - 120

Method: SM 4500 NH3 G - Ammonia

Lab Sample ID: MB 500-346808/1-A Matrix: Water Analysis Batch: 346878				Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 346808					
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.0480	J	0.20	0.028	mg/L		08/05/16 20:20	08/05/16 22:44	1

Lab Sample ID: MB 500-346808/1-A Matrix: Water Analysis Batch: 347034				Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 346808					
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.0470	J	0.20	0.028	mg/L		08/05/16 20:20	08/08/16 20:19	1

Lab Sample ID: LCS 500-346808/2-A Matrix: Water Analysis Batch: 346878				Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 346808 %Rec.			
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Ammonia	2.50	2.42		mg/L		97	80 - 120

Lab Sample ID: LCS 500-346808/2-A Matrix: Water Analysis Batch: 347034				Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 346808 %Rec.			
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Ammonia	2.50	2.49		mg/L		100	80 - 120

TestAmerica Chicago

QC Sample Results

Client: RJN Environmental Services LLC
 Project/Site: Central Sands Dairy - 14-203

TestAmerica Job ID: 500-114969-1

Method: SM 4500 P E - Phosphorus

Lab Sample ID: MB 500-345666/1-A Matrix: Water Analysis Batch: 345871						Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 345666			
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	<0.015		0.050	0.015	mg/L		07/28/16 15:29	07/29/16 14:15	1
Lab Sample ID: LCS 500-345666/2-A Matrix: Water Analysis Batch: 345871						Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 345666 %Rec.			
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phosphorus as P			0.500	0.439		mg/L		88	80 - 120
Lab Sample ID: MB 500-346077/1-A Matrix: Water Analysis Batch: 346289						Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 346077			
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	<0.015		0.050	0.015	mg/L		08/01/16 15:23	08/02/16 20:42	1
Lab Sample ID: LCS 500-346077/2-A Matrix: Water Analysis Batch: 346289						Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 346077 %Rec.			
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phosphorus as P			0.500	0.443		mg/L		89	80 - 120

Lab Chronicle

Client: RJN Environmental Services LLC
 Project/Site: Central Sands Dairy - 14-203

TestAmerica Job ID: 500-114969-1

Client Sample ID: CSD-1S

Lab Sample ID: 500-114969-1

Date Collected: 07/26/16 12:50

Matrix: Water

Date Received: 07/28/16 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			345645	07/28/16 14:36	JNH	TAL CHI
Total Recoverable	Analysis	6020		1	346025	07/29/16 13:18	FXG	TAL CHI
Total/NA	Analysis	353.2		10	346879	08/07/16 20:48	HMW	TAL CHI
Total/NA	Prep	SM4500Norg_C			346582	08/05/16 10:00	MTB	TAL CHI
Total/NA	Analysis	4500 NH3 G		1	346747	08/05/16 12:26	MTB	TAL CHI
Total/NA	Prep	SM 4500 NH3 B			346808	08/05/16 20:20	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	346878	08/05/16 22:58	HMW	TAL CHI
Total/NA	Prep	SM 4500 P B			345666	07/28/16 15:29	JBj	TAL CHI
Total/NA	Analysis	SM 4500 P E		1	345871		JBj	TAL CHI
					(Start)	07/29/16 14:20		
					(End)	07/29/16 14:21		

Client Sample ID: CSD-1D

Lab Sample ID: 500-114969-2

Date Collected: 07/26/16 11:50

Matrix: Water

Date Received: 07/28/16 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			345645	07/28/16 14:36	JNH	TAL CHI
Total Recoverable	Analysis	6020		1	346025	07/29/16 13:29	FXG	TAL CHI
Total/NA	Analysis	353.2		25	346778	08/05/16 01:20	HMW	TAL CHI
Total/NA	Prep	SM4500Norg_C			347126	08/10/16 08:45	MTB	TAL CHI
Total/NA	Analysis	4500 NH3 G		1	347304	08/10/16 11:43	MTB	TAL CHI
Total/NA	Prep	SM 4500 NH3 B			346808	08/05/16 20:20	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	347034	08/08/16 20:27	HMW	TAL CHI
Total/NA	Prep	SM 4500 P B			345666	07/28/16 15:29	JBj	TAL CHI
Total/NA	Analysis	SM 4500 P E		1	345871		JBj	TAL CHI
					(Start)	07/29/16 14:21		
					(End)	07/29/16 14:21		

Client Sample ID: CSD-2

Lab Sample ID: 500-114969-3

Date Collected: 07/26/16 14:45

Matrix: Water

Date Received: 07/28/16 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			345645	07/28/16 14:36	JNH	TAL CHI
Total Recoverable	Analysis	6020		1	346025	07/29/16 13:33	FXG	TAL CHI
Total/NA	Analysis	353.2		5	346879	08/07/16 20:51	HMW	TAL CHI
Total/NA	Prep	SM4500Norg_C			346582	08/05/16 10:00	MTB	TAL CHI
Total/NA	Analysis	4500 NH3 G		1	346747	08/05/16 12:32	MTB	TAL CHI
Total/NA	Prep	SM 4500 NH3 B			346808	08/05/16 20:20	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	346878	08/05/16 23:03	HMW	TAL CHI
Total/NA	Prep	SM 4500 P B			346077	08/01/16 15:23	JBj	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: RJN Environmental Services LLC
 Project/Site: Central Sands Dairy - 14-203

TestAmerica Job ID: 500-114969-1

Client Sample ID: CSD-2

Lab Sample ID: 500-114969-3

Date Collected: 07/26/16 14:45

Matrix: Water

Date Received: 07/28/16 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 P E		1	346289	08/02/16 20:48 (Start) 08/02/16 20:49 (End)	JBJ	TAL CHI

Client Sample ID: CSD-3S

Lab Sample ID: 500-114969-4

Date Collected: 07/26/16 09:35

Matrix: Water

Date Received: 07/28/16 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			345645	07/28/16 14:36	JNH	TAL CHI
Total Recoverable	Analysis	6020		1	346025	07/29/16 13:36	FXG	TAL CHI
Total/NA	Analysis	353.2		25	346778	08/05/16 01:21	HMW	TAL CHI
Total/NA	Prep	SM4500Norg_C			346582	08/05/16 10:00	MTB	TAL CHI
Total/NA	Analysis	4500 NH3 G		1	346747	08/05/16 12:40	MTB	TAL CHI
Total/NA	Prep	SM 4500 NH3 B			346808	08/05/16 20:20	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	346878	08/05/16 23:06	HMW	TAL CHI
Total/NA	Prep	SM 4500 P B			346077	08/01/16 15:23	JBJ	TAL CHI
Total/NA	Analysis	SM 4500 P E		1	346289	08/02/16 20:49 (Start) 08/02/16 20:49 (End)	JBJ	TAL CHI

Client Sample ID: CSD-3D

Lab Sample ID: 500-114969-5

Date Collected: 07/26/16 08:25

Matrix: Water

Date Received: 07/28/16 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			345645	07/28/16 14:36	JNH	TAL CHI
Total Recoverable	Analysis	6020		1	346025	07/29/16 13:40	FXG	TAL CHI
Total/NA	Analysis	353.2		5	346879	08/07/16 20:57	HMW	TAL CHI
Total/NA	Prep	SM4500Norg_C			346582	08/05/16 10:00	MTB	TAL CHI
Total/NA	Analysis	4500 NH3 G		1	346747	08/05/16 12:43	MTB	TAL CHI
Total/NA	Prep	SM 4500 NH3 B			346808	08/05/16 20:20	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	346878	08/05/16 23:09	HMW	TAL CHI
Total/NA	Prep	SM 4500 P B			346077	08/01/16 15:23	JBJ	TAL CHI
Total/NA	Analysis	SM 4500 P E		1	346289	08/02/16 20:49 (Start) 08/02/16 20:49 (End)	JBJ	TAL CHI

Lab Chronicle

Client: RJN Environmental Services LLC
 Project/Site: Central Sands Dairy - 14-203

TestAmerica Job ID: 500-114969-1

Client Sample ID: CSD-4

Lab Sample ID: 500-114969-6

Date Collected: 07/26/16 13:50

Matrix: Water

Date Received: 07/28/16 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			345645	07/28/16 14:36	JNH	TAL CHI
Total Recoverable	Analysis	6020		1	346025	07/29/16 13:44	FXG	TAL CHI
Total/NA	Analysis	353.2		50	346879	08/07/16 20:59	HMW	TAL CHI
Total/NA	Prep	SM4500Norg_C			346582	08/05/16 10:00	MTB	TAL CHI
Total/NA	Analysis	4500 NH3 G		1	346747	08/05/16 12:46	MTB	TAL CHI
Total/NA	Prep	SM 4500 NH3 B			346808	08/05/16 20:20	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	346878	08/05/16 23:18	HMW	TAL CHI
Total/NA	Prep	SM 4500 P B			346077	08/01/16 15:23	JBj	TAL CHI
Total/NA	Analysis	SM 4500 P E		1	346289		JBj	TAL CHI
						(Start) 08/02/16 20:49		
						(End) 08/02/16 20:50		

Client Sample ID: CSD-4D

Lab Sample ID: 500-114969-7

Date Collected: 07/26/16 13:50

Matrix: Water

Date Received: 07/28/16 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			345645	07/28/16 14:36	JNH	TAL CHI
Total Recoverable	Analysis	6020		1	346025	07/29/16 13:48	FXG	TAL CHI
Total/NA	Analysis	353.2		25	346778	08/05/16 01:22	HMW	TAL CHI
Total/NA	Prep	SM4500Norg_C			346582	08/05/16 10:00	MTB	TAL CHI
Total/NA	Analysis	4500 NH3 G		1	346747	08/05/16 12:49	MTB	TAL CHI
Total/NA	Prep	SM 4500 NH3 B			346808	08/05/16 20:20	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	346878	08/05/16 23:20	HMW	TAL CHI
Total/NA	Prep	SM 4500 P B			346077	08/01/16 15:23	JBj	TAL CHI
Total/NA	Analysis	SM 4500 P E		1	346289		JBj	TAL CHI
						(Start) 08/02/16 20:50		
						(End) 08/02/16 20:50		

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: RJN Environmental Services LLC
Project/Site: Central Sands Dairy - 14-203

TestAmerica Job ID: 500-114969-1

Laboratory: TestAmerica Chicago

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	999580010	08-31-16 *

* Certification renewal pending - certification considered valid.

TestAmerica Chicago

(optional)

Report To: **BOB NAUTA**
 Contact: **RJN ENV. SVG.**
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

(optional)

Bill To: **SAME**
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference#: _____

Chain of Custody Record

Lab Job #: **500-14969**
 Chain of Custody Number: _____
 Pages: **2** of **2**
 Temperature °C of Cooler: _____

Lab ID	M/S/MSD	Sample ID	Date	Time	# of Containers	Matrix	Preservative	Client Project #		Comments
								Lab Project #	Lab PM	
1		CSD-1S	7/26	1250	3 W			3	2	
2		CSD-1P		1150	3 W					
3		CSD-2		1445	3 W					
4		CSD-3S		0935	3 W					
5		CSD-3D		0825	3 W					
6		CSD-4		1350	3 W					
7		CSD-4D		1350	3 W					

Preservative Key
 1. HCL, Cool to 4°
 2. H2SO4, Cool to 4°
 3. ... Cool to 4°
 4. ... Cool to 4°



500-114969 COC

Turnaround Time Required (Business Days)
 Requested Due Date: _____ 1 Day _____ 2 Days _____ 5 Days _____ 7 Days _____ 10 Days _____ 15 Days _____ Other _____
 Relinquished By: **RJN** Date: **08/30**
 Relinquished By: **RJN** Date: **08/30**
 Relinquished By: _____ Date: _____

Received By: **DAVE OFFALICO** Date: _____
 Received By: _____ Date: _____
 Received By: _____ Date: _____

Disposal by Lab: Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)
 Disposed by Lab: _____

Lab Courier: **IX STD**
 Shipped: _____
 Hand Delivered: _____

Client Comments: _____
 Lab Comments: _____

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Login Sample Receipt Checklist

Client: RJN Environmental Services LLC

Job Number: 500-114969-1

Login Number: 114969

List Source: TestAmerica Chicago

List Number: 1

Creator: Sanchez, Ariel M

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	False	ON ICE
Cooler Temperature is recorded.	True	8.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



D.F. Kurtycz, M.D., Medical Director - Peter Shult, Ph.D., Interim Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 268466001

Report To:
BOB ENVIRONMENTAL NAUTA
RJN ENVIRONMENTAL SERVICES
4631 COUNTY RD A
OREGON, WI 53575

Invoice To:
BOB ENVIRONMENTAL NAUTA
RJN ENVIRONMENTAL SERVICES
4631 COUNTY RD A
OREGON, WI 53575
Customer ID: 340214

Collection Date: 7/26/2016 12:50:00 PM
Owner:

Collected By: BOB NAUTA
Well Completion Date: 10/01/14

CSD-1S

Unique Well #: VY778
Well Construction: DRILLED
County: JUNEAU
Driller or Pump Installers License #:
Sampling Location:
Sampling Point: OTHER

Date Received: 7/27/2016
Date Reported: 7/28/2016
Sample Reason: OTHER

Microbiology

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 07/27/16 Analysis Date 07/28/16					
Total Coliform - Colilert-MPN QT	SM9223BMPN	<1	MPN/100 mL		1
E. Coli - Colilert-MPN QT	SM9223BMPN	<1	MPN/100 mL		1

List of Abbreviations:

LOD = Level of detection
LOQ = Level of quantification
ND = None detected. Results are less than the LOD
F next to result = Result is between LOD and LOQ
Z next to result = Result is between 0 (zero) and LOD
if LOD=LOQ, Limits were not statistically derived

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see <http://www.slh.wisc.edu/about/compliance/nelac-laboratory-accreditation>
Results, LOD and LOQ values have been adjusted for analytical dilutions and percent moisture where applicable.
Results relate only to the items tested.
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The water microbiology unit analyzes samples as received and not all samples are tested for preservation before analysis is performed.



Wisconsin State
Laboratory of Hygiene
UNIVERSITY OF WISCONSIN-MADISON

Wisconsin State Laboratory of Hygiene
2601 Agriculture Drive, PO Box 7996
Madison, WI 53707-7996
(800)442-4618 - FAX (608)224-6213
<http://www.slh.wisc.edu>

Laboratory Report

D.F. Kurtyez, M.D., Medical Director - Peter Shult, Ph.D., Interim Director

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007

WI DATCP ID: 105-415

WSLH Sample: 268466001

Responsible Party

Microbiology: Sharon Kluender, Lab Manager, 608-224-6262

Inorganic Chemistry: Tracy Hanke, Lab Manager, 608-224-6270

Metals: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282

Organic Chemistry: Al Spallato, Lab Manager, 608-224-6269

Emergency Chemical Response: Noel Stanton, Lab Manager, 608-224-6251

Environmental Toxicology: Dave Webb, Lab Manager, 608-224-6200



D.F. Kurtycz, M.D., Medical Director - Peter Shult, Ph.D., Interim Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 268468001

Report To:

BOB ENVIRONMENTAL NAUTA
RJN ENVIRONMENTAL SERVICES
4631 COUNTY RD A
OREGON, WI 53575

Invoice To:

BOB ENVIRONMENTAL NAUTA
RJN ENVIRONMENTAL SERVICES
4631 COUNTY RD A
OREGON, WI 53575

Customer ID: 340214

Collection Date: 7/26/2016 11:50:00 AM

Owner:

Collected By: BOB NAUTA

Well Completion Date:

CSD-1S

Unique Well #: VY779

Well Construction:

County: JUNEAU

Driller or Pump Installers License #:

Sampling Location:

Sampling Point: OTHER

Date Received: 7/27/2016

Date Reported: 7/28/2016

Sample Reason: OTHER

Sample Comments

SAMPLE SOURCE: MONITOR WELL

Microbiology

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 07/27/16	Analysis Date 07/28/16				
Total Coliform - Colilert-MPN QT	SM9223BMPN	140	MPN/100 mL		1
E. Coli - Colilert-MPN QT	SM9223BMPN	<1	MPN/100 mL		1



Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007

WI DATCP ID: 105-415

WSLH Sample: 268468001

List of Abbreviations:

LOD = Level of detection

LOQ = Level of quantification

ND = None detected. Results are less than the LOD

F next to result = Result is between LOD and LOQ

Z next to result = Result is between 0 (zero) and LOD

if LOD=LOQ, Limits were not statistically derived

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see <http://www.slh.wisc.edu/about/compliance/nelac-laboratory-accreditation>

Results, LOD and LOQ values have been adjusted for analytical dilutions and percent moisture where applicable.

Results relate only to the items tested.

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The water microbiology unit analyzes samples as received and not all samples are tested for preservation before analysis is performed.

Responsible Party

Microbiology: Sharon Kluender, Lab Manager, 608-224-6262

Inorganic Chemistry: Tracy Hanke, Lab Manager, 608-224-6270

Metals: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282

Organic Chemistry: Al Spallato, Lab Manager, 608-224-6269

Emergency Chemical Response: Noel Stanton, Lab Manager, 608-224-6251

Environmental Toxicology: Dave Webb, Lab Manager, 608-224-6200



Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 268460001

Report To:

BOB ENVIRONMENTAL NAUTA
RJN ENVIRONMENTAL SERVICES
4631 COUNTY RD A
OREGON, WI 53575

Invoice To:

BOB ENVIRONMENTAL NAUTA
RJN ENVIRONMENTAL SERVICES
4631 COUNTY RD A
OREGON, WI 53575

Customer ID: 340214

Collection Date: 7/26/2016 2:45:00 PM

Owner:

Collected By: BOB NAUTA

Well Completion Date:

CSD-2

Unique Well #: VU928

Well Construction: DRILLED

County: JUNEAU

Driller or Pump Installers License #:

Sampling Location:

Sampling Point: OTHER

Date Received: 7/27/2016

Date Reported: 7/29/2016

Sample Reason: OTHER

Sample Comments

REREPORTED TO ADD DEMOGRAPHIC INFO

Microbiology

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 07/27/16	Analysis Date 07/28/16				
Total Coliform - Colilert-MPN QT	SM9223BMPN	6	MPN/100 mL		1
E. Coli - Colilert-MPN QT	SM9223BMPN	<1	MPN/100 mL		1



Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007

WI DATCP ID: 105-415

WSLH Sample: 268460001

List of Abbreviations:

LOD = Level of detection

LOQ = Level of quantification

ND = None detected. Results are less than the LOD

F next to result = Result is between LOD and LOQ

Z next to result = Result is between 0 (zero) and LOD

if LOD=LOQ, Limits were not statistically derived

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see <http://www.slh.wisc.edu/about/compliance/nelac-laboratory-accreditation>

Results, LOD and LOQ values have been adjusted for analytical dilutions and percent moisture where applicable.

Results relate only to the items tested.

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The water microbiology unit analyzes samples as received and not all samples are tested for preservation before analysis is performed.

Previous Reports

This sample was previously reported under the following report ID(s): 3301227

Responsible Party

Microbiology: Sharon Kluender, Lab Manager, 608-224-6262

Inorganic Chemistry: Tracy Hanke, Lab Manager, 608-224-6270

Metals: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282

Organic Chemistry: Al Spallato, Lab Manager, 608-224-6269

Emergency Chemical Response: Noel Stanton, Lab Manager, 608-224-6251

Environmental Toxicology: Dave Webb, Lab Manager, 608-224-6200



D.F. Kurtycz, M.D., Medical Director - Peter Shult, Ph.D., Interim Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 268471001

Report To:
BOB ENVIRONMENTAL NAUTA
RJN ENVIRONMENTAL SERVICES
4631 COUNTY RD A
OREGON, WI 53575

Invoice To:
BOB ENVIRONMENTAL NAUTA
RJN ENVIRONMENTAL SERVICES
4631 COUNTY RD A
OREGON, WI 53575
Customer ID: 340214

Collection Date: 7/26/2016 9:35:00 AM
Owner:

Collected By: BOB NAUTA
Well Completion Date:

CSD-3S

Unique Well #: VU925
Well Construction:
County: JUNEAU
Driller or Pump Installers License #:
Sampling Location:
Sampling Point: OTHER

Date Received: 7/27/2016
Date Reported: 7/28/2016
Sample Reason: OTHER

Sample Comments

SAMPLE SOURCE: MONITOR WELL

Microbiology

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 07/27/16	Analysis Date 07/28/16				
Total Coliform - Collert-MPN QT	SM9223BMPN	33	MPN/100 mL		1
E. Coli - Collert-MPN QT	SM9223BMPN	<1	MPN/100 mL		1



Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007

WI DATCP ID: 105-415

WSLH Sample: 268471001

List of Abbreviations:

LOD = Level of detection

LOQ = Level of quantification

ND = None detected. Results are less than the LOD

F next to result = Result is between LOD and LOQ

Z next to result = Result is between 0 (zero) and LOD

if LOD=LOQ, Limits were not statistically derived

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see <http://www.slh.wisc.edu/about/compliance/nelac-laboratory-accreditation>

Results, LOD and LOQ values have been adjusted for analytical dilutions and percent moisture where applicable.

Results relate only to the items tested.

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The water microbiology unit analyzes samples as received and not all samples are tested for preservation before analysis is performed.

Responsible Party

Microbiology: Sharon Kluender, Lab Manager, 608-224-6262

Inorganic Chemistry: Tracy Hanke, Lab Manager, 608-224-6270

Metals: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282

Organic Chemistry: Al Spallato, Lab Manager, 608-224-6269

Emergency Chemical Response: Noel Stanton, Lab Manager, 608-224-6251

Environmental Toxicology: Dave Webb, Lab Manager, 608-224-6200



D.F. Kurtycz, M.D., Medical Director - Peter Shult, Ph.D., Interim Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 268473001

Report To:

BOB ENVIRONMENTAL NAUTA
RJN ENVIRONMENTAL SERVICES
4631 COUNTY RD A
OREGON, WI 53575

Invoice To:

BOB ENVIRONMENTAL NAUTA
RJN ENVIRONMENTAL SERVICES
4631 COUNTY RD A
OREGON, WI 53575
Customer ID: 340214

Collection Date: 7/26/2016 8:25:00 AM
Owner:

Collected By: BOB NAUTA
Well Completion Date:

CSD-3D

Unique Well #: VU926
Well Construction: DRILLED
County: JUNEAU
Driller or Pump Installers License #:
Sampling Location:
Sampling Point: OTHER

Date Received: 7/27/2016
Date Reported: 7/28/2016
Sample Reason: OTHER

Sample Comments

SAMPLE SOURCE: MONITOR WELL

Microbiology

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 07/27/16	Analysis Date 07/28/16				
Total Coliform - Colilert-MPN QT	SM9223BMPN	82	MPN/100 mL		1
E. Coli - Colilert-MPN QT	SM9223BMPN	<1	MPN/100 mL		1



Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007

WI DATCP ID: 105-415

WSLH Sample: 268473001

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D.F. Kurtycz, M.D., Medical Director - Peter Shult, Ph.D., Interim Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 268461001

Report To:

BOB ENVIRONMENTAL NAUTA
RJN ENVIRONMENTAL SERVICES
4631 COUNTY RD A
OREGON, WI 53575

Invoice To:

BOB ENVIRONMENTAL NAUTA
RJN ENVIRONMENTAL SERVICES
4631 COUNTY RD A
OREGON, WI 53575

Customer ID: 340214

Collection Date: 7/26/2016 1:50:00 PM

Owner:

Collected By: BOB NAUTA

Well Completion Date:

CSD-4

Unique Well #: VU927

Well Construction:

County: JUNEAU

Driller or Pump Installers License #:

Sampling Location:

Sampling Point: OTHER

Date Received: 7/27/2016

Date Reported: 7/28/2016

Sample Reason: OTHER

Sample Comments

SAMPLE SOURCE: MONITOR WELL

Microbiology

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 07/27/16 Analysis Date 07/28/16					
Total Coliform - Colilert-MPN QT	SM9223BMPN	5	MPN/100 mL		1
E. Coli - Colilert-MPN QT	SM9223BMPN	<1	MPN/100 mL		1



Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007

WI DATCP ID: 105-415

WSLH Sample: 268461001

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D.F. Kurtycz, M.D., Medical Director - Peter Shult, Ph.D., Interim Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 268464001

Report To:

BOB ENVIRONMENTAL NAUTA
RJN ENVIRONMENTAL SERVICES
4631 COUNTY RD A
OREGON, WI 53575

Invoice To:

BOB ENVIRONMENTAL NAUTA
RJN ENVIRONMENTAL SERVICES
4631 COUNTY RD A
OREGON, WI 53575
Customer ID: 340214

Collection Date: 7/26/2016 1:50:00 PM
Owner:

Collected By: BOB NAUTA
Well Completion Date:

CSD-4 DUP

Unique Well #: VU927
Well Construction: DRILLED
County: JUNEAU
Driller or Pump Installers License #:
Sampling Location:
Sampling Point: OTHER

Date Received: 7/27/2016
Date Reported: 7/28/2016
Sample Reason: OTHER

Sample Comments

SAMPLE SOURCE: MONITOR WELL

Microbiology

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 07/27/16 Analysis Date 07/28/16					
Total Coliform - Colilert-MPN QT	SM9223BMPN	2	MPN/100 mL		1
E. Coli - Colilert-MPN QT	SM9223BMPN	<1	MPN/100 mL		1



Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007

WI DATCP ID: 105-415

WSLH Sample: 268464001

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